

Tetsuro Shinoda

List of Publications by Year in descending order

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78
papers

5,103
citations

109321

35
h-index

88630

70
g-index

79
all docs

79
docs citations

79
times ranked

3098
citing authors

#	ARTICLE	IF	CITATIONS
1	Krüppel homolog 1, an early juvenile hormone-response gene downstream of Methoprene-tolerant, mediates its anti-metamorphic action in the red flour beetle <i>Tribolium castaneum</i> . <i>Developmental Biology</i> , 2009, 325, 341-350.	2.0	299
2	Juvenile hormone acid methyltransferase: A key regulatory enzyme for insect metamorphosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 11986-11991.	7.1	293
3	Transcriptional regulation of juvenile hormone-mediated induction of Krüppel homolog 1, a repressor of insect metamorphosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 11729-11734.	7.1	282
4	Spook and Spookier code for stage-specific components of the ecdysone biosynthetic pathway in Diptera. <i>Developmental Biology</i> , 2006, 298, 555-570.	2.0	274
5	Phantom encodes the 25-hydroxylase of <i>Drosophila melanogaster</i> and <i>Bombyx mori</i> : a P450 enzyme critical in ecdysone biosynthesis. <i>Insect Biochemistry and Molecular Biology</i> , 2004, 34, 991-1010.	2.7	263
6	Molecular basis of juvenile hormone signaling. <i>Current Opinion in Insect Science</i> , 2015, 11, 39-46.	4.4	193
7	Neuropeptide Receptor Transcriptome Reveals Unidentified Neuroendocrine Pathways. <i>PLoS ONE</i> , 2008, 3, e3048.	2.5	187
8	Juvenile Hormone Prevents Ecdysteroid-Induced Expression of Broad Complex RNAs in the Epidermis of the Tobacco Hornworm, <i>Manduca sexta</i> . <i>Developmental Biology</i> , 1998, 203, 233-244.	2.0	177
9	<i>Non-molting glossy</i> / <i>shroud</i> encodes a short-chain dehydrogenase/reductase that functions in the "Black Box" of the ecdysteroid biosynthesis pathway. <i>Development (Cambridge)</i> , 2010, 137, 1991-1999.	2.5	163
10	RNAi-mediated knockdown of <i>juvenile hormone acid O-methyltransferase</i> gene causes precocious metamorphosis in the red flour beetle <i>Tribolium castaneum</i> . <i>FEBS Journal</i> , 2008, 275, 2919-2931.	4.7	160
11	Control of juvenile hormone biosynthesis in <i>Bombyx mori</i> : Cloning of the enzymes in the mevalonate pathway and assessment of their developmental expression in the corpora allata. <i>Insect Biochemistry and Molecular Biology</i> , 2007, 37, 808-818.	2.7	141
12	Precocious Metamorphosis in the Juvenile Hormone-Deficient Mutant of the Silkworm, <i>Bombyx mori</i> . <i>PLoS Genetics</i> , 2012, 8, e1002486.	3.5	135
13	UDP-Glycosyltransferases from the UGT73C Subfamily in <i>Barbarea vulgaris</i> Catalyze Sapogenin 3-O-Glucosylation in Saponin-Mediated Insect Resistance. <i>Plant Physiology</i> , 2012, 160, 1881-1895.	4.8	134
14	Juvenile hormone acid O-methyltransferase in <i>Drosophila melanogaster</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2008, 38, 714-720.	2.7	127
15	Transcriptome analysis of neuropeptides and G-protein coupled receptors (GPCRs) for neuropeptides in the brown planthopper <i>Nilaparvata lugens</i> . <i>Peptides</i> , 2014, 53, 125-133.	2.4	127
16	Molecular mechanism underlying juvenile hormone-mediated repression of precocious larval-adult metamorphosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 1057-1062.	7.1	115
17	Identification of a triterpenoid saponin from a crucifer, <i>Barbarea vulgaris</i> , as a feeding deterrent to the diamondback moth, <i>Plutella xylostella</i> . <i>Journal of Chemical Ecology</i> , 2002, 28, 587-599.	1.8	111
18	Knockout silkworms reveal a dispensable role for juvenile hormones in holometabolous life cycle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E4226-35.	7.1	110

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19	Krüppel Homolog 1 Inhibits Insect Metamorphosis via Direct Transcriptional Repression of Broad-Complex, a Pupal Specifier Gene. <i>Journal of Biological Chemistry</i> , 2016, 291, 1751-1762.	3.4	107
20	Importance of juvenile hormone signaling arises with competence of insect larvae to metamorphose. <i>Developmental Biology</i> , 2014, 390, 221-230.	2.0	100
21	Methyl farnesoate synthesis is necessary for the environmental sex determination in the water flea <i>Daphnia pulex</i> . <i>Journal of Insect Physiology</i> , 2015, 80, 22-30.	2.0	96
22	Regulation of the Transcription Factor E75 by 20-Hydroxyecdysone and Juvenile Hormone in the Epidermis of the Tobacco Hornworm, <i>Manduca sexta</i> , during Larval Molting and Metamorphosis. <i>Developmental Biology</i> , 1998, 193, 127-138.	2.0	87
23	Hormonal regulation and developmental role of Krüppel homolog 1, a repressor of metamorphosis, in the silkworm <i>Bombyx mori</i> . <i>Developmental Biology</i> , 2014, 388, 48-56.	2.0	74
24	Establishment of a versatile cell line for juvenile hormone signaling analysis in <i>Tribolium castaneum</i> . <i>Scientific Reports</i> , 2013, 3, 1570.	3.3	68
25	Resistance in the Plant, <i>Barbarea vulgaris</i> , and Counter-Adaptations in Flea Beetles Mediated by Saponins. <i>Journal of Chemical Ecology</i> , 2010, 36, 277-285.	1.8	67
26	The role of 20-hydroxyecdysone and juvenile hormone in pupal commitment of the epidermis of the silkworm, <i>Bombyx mori</i> . <i>Mechanisms of Development</i> , 2008, 125, 411-420.	1.7	65
27	The silkworm glutathione S-transferase gene <i>noppera-bo</i> is required for ecdysteroid biosynthesis and larval development. <i>Insect Biochemistry and Molecular Biology</i> , 2015, 61, 1-7.	2.7	63
28	Cloning and functional expression of a chitinase cDNA from the common cutworm, <i>Spodoptera litura</i> , using a recombinant baculovirus lacking the virus-encoded chitinase gene. <i>Insect Biochemistry and Molecular Biology</i> , 2001, 31, 521-532.	2.7	56
29	A Role for Taiman in Insect Metamorphosis. <i>PLoS Genetics</i> , 2014, 10, e1004769.	3.5	56
30	Molecular and functional characterization of a juvenile hormone acid methyltransferase expressed in the corpora allata of mosquitoes. <i>Insect Biochemistry and Molecular Biology</i> , 2009, 39, 31-37.	2.7	55
31	Identification of the <i>Bombyx</i> Red Egg Gene Reveals Involvement of a Novel Transporter Family Gene in Late Steps of the Insect Ommochrome Biosynthesis Pathway. <i>Journal of Biological Chemistry</i> , 2012, 287, 17706-17714.	3.4	55
32	Molecular characterization and expression of laccase genes in the salivary glands of the green rice leafhopper, <i>Nephotettix cincticeps</i> (Hemiptera: Cicadellidae). <i>Insect Biochemistry and Molecular Biology</i> , 2010, 40, 331-338.	2.7	48
33	Function, diversity, and application of insect juvenile hormone epoxidases (CYP15). <i>Biotechnology and Applied Biochemistry</i> , 2013, 60, 82-91.	3.1	48
34	Characterization and DNA-binding properties of GRF, a novel monomeric binding orphan receptor related to GCNF and betaFTZ-F1. <i>FEBS Journal</i> , 1999, 266, 181-190.	0.2	43
35	Spatial expression of the mevalonate enzymes involved in juvenile hormone biosynthesis in the corpora allata in <i>Bombyx mori</i> . <i>Journal of Insect Physiology</i> , 2009, 55, 798-804.	2.0	40
36	Determination by LC-MS of Juvenile Hormone Titrers in Hemolymph of the Silkworm, <i>Bombyx mori</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2013, 77, 988-991.	1.3	36

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37	Cyanoprotein: Developmental stage, sex and diapause-dependent expression, and synthesis regulation by juvenile hormone in the bean bug, <i>Riptortus clavatus</i> . <i>Archives of Insect Biochemistry and Physiology</i> , 1992, 20, 61-73.	1.5	33
38	Two hexameric cyanoprotein subunits from an insect, <i>Riptortus clavatus</i> . Sequence, phylogeny and developmental and juvenile hormone regulation. <i>FEBS Journal</i> , 1998, 258, 929-940.	0.2	33
39	Characterization of Juvenile Hormone Epoxide Hydrolase and Related Genes in the Larval Development of the Silkworm <i>Bombyx mori</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2010, 74, 1421-1429.	1.3	33
40	The <i>Drosophila</i> Zinc Finger Transcription Factor Ouija Board Controls Ecdysteroid Biosynthesis through Specific Regulation of <i>spookier</i> . <i>PLoS Genetics</i> , 2015, 11, e1005712.	3.5	32
41	Expression of mRNA for the t-complex polypeptide 1, a subunit of chaperonin CCT, is upregulated in association with increased cold hardiness in <i>Delia antiqua</i> . <i>Cell Stress and Chaperones</i> , 2005, 10, 204.	2.9	32
42	Molecular characterization and functional analysis of novel carboxyl/cholinesterases with GQSAG motif in the silkworm <i>Bombyx mori</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2010, 40, 100-112.	2.7	29
43	Functional characterization of two paralogous JH receptors, methoprene-tolerant 1 and 2, in the silkworm, <i>Bombyx mori</i> (Lepidoptera: Bombycidae). <i>Applied Entomology and Zoology</i> , 2015, 50, 383-391.	1.2	29
44	<i>Bombyx mori</i> orphan receptor, BmHR78: cDNA cloning, testis abundant expression and putative dimerization partner for <i>Bombyx ultraspiracle</i> . <i>Molecular and Cellular Endocrinology</i> , 2002, 189, 201-211.	3.2	27
45	Expressional and functional analysis of CYP15A1, a juvenile hormone epoxidase, in the red flour beetle <i>Tribolium castaneum</i> . <i>Journal of Insect Physiology</i> , 2015, 80, 61-70.	2.0	27
46	Identification and cDNA cloning of novel juvenile hormone responsive genes from fat body of the bean bug, <i>Riptortus clavatus</i> by mRNA differential display. <i>Insect Biochemistry and Molecular Biology</i> , 1998, 28, 181-189.	2.7	26
47	Reinvestigation of the Sex Pheromone of the Wild Silkmoth <i>Bombyx mandarina</i> : The Effects of <i>Bombykal</i> and <i>Bombykyl</i> Acetate. <i>Journal of Chemical Ecology</i> , 2012, 38, 1031-1035.	1.8	26
48	<i>Burkholderia</i> gut symbiont modulates titer of specific juvenile hormone in the bean bug <i>Riptortus pedestris</i> . <i>Developmental and Comparative Immunology</i> , 2019, 99, 103399.	2.3	25
49	Cyanoprotein: Quantitative changes and synthesis in diapause and juvenile hormone analog treated bean bug, <i>Riptortus clavatus</i> . <i>Insect Biochemistry</i> , 1991, 21, 553-562.	1.8	23
50	Quantitative changes and synthesis of cyanoprotein in whole body and tissues during development of the bean bug, <i>Riptortus clavatus</i> . <i>Insect Biochemistry</i> , 1991, 21, 313-320.	1.8	22
51	Enantioselective separation of racemic juvenile hormone III by normal-phase high-performance liquid chromatography and preparation of [³ H]juvenile hormone III as an internal standard for liquid chromatography-mass spectrometry quantification. <i>Journal of Chromatography A</i> , 2007, 1161, 252-260.	3.7	22
52	Genome-wide Identification of Tebufenozide Resistant Genes in the smaller tea tortrix, <i>Adoxophyes honmai</i> (Lepidoptera: Tortricidae). <i>Scientific Reports</i> , 2019, 9, 4203.	3.3	22
53	Misdirection of dosage compensation underlies bidirectional sex-specific death in <i>Wolbachia</i> -infected <i>Ostrinia scapularis</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2015, 66, 72-76.	2.7	21
54	Severe developmental timing defects in the prothoracicotropic hormone (PTTH)-deficient silkworm, <i>Bombyx mori</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2017, 87, 14-25.	2.7	21

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55	Identification of a Novel Strong and Ubiquitous Promoter/Enhancer in the Silkworm <i>Bombyx mori</i> . <i>G3: Genes, Genomes, Genetics</i> , 2014, 4, 1347-1357.	1.8	18
56	Identification of allatostatins in the brown-winged green bug <i>Plautia stali</i> . <i>Journal of Insect Physiology</i> , 2017, 96, 21-28.	2.0	18
57	Cyanoprotein: Immunological properties and content changes during the development of non-diapause female bean bugs, <i>Riptortus clavatus</i> . <i>Insect Biochemistry</i> , 1991, 21, 223-231.	1.8	16
58	Identification of a juvenile-hormone signaling inhibitor via high-throughput screening of a chemical library. <i>Scientific Reports</i> , 2020, 10, 18413.	3.3	15
59	Methoprene-tolerant is essential for embryonic development of the red flour beetle <i>Tribolium castaneum</i> . <i>Journal of Insect Physiology</i> , 2020, 121, 104017.	2.0	13
60	Juvenile Hormone Biosynthetic Enzymes as Targets for Insecticide Discovery. , 2013, , 31-55.		11
61	Remodeling of the corpora cardiaca and the corpora allata during adult metamorphosis in <i>Bombyx mori</i> : identification of invisible corpora cardiaca by the expression of adipokinetic hormone. <i>Applied Entomology and Zoology</i> , 2011, 46, 87-93.	1.2	9
62	A virus carries a gene encoding juvenile hormone acid methyltransferase, a key regulatory enzyme in insect metamorphosis. <i>Scientific Reports</i> , 2017, 7, 13522.	3.3	9
63	Involvement of the transcription factor E75 in adult cuticular formation in the red flour beetle <i>Tribolium castaneum</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2020, 126, 103450.	2.7	9
64	Genome-wide assessment and development of molecular diagnostic methods for imidacloprid resistance in the brown planthopper, <i>Nilaparvata lugens</i> (Hemiptera); <i>Trends in Plant Science</i> , 2019, 24, 101-109.	3.0	9
65	Tebufenozide resistance in the smaller tea tortrix, <i>Adoxophyes honmai</i> (Lepidoptera: Tortricidae): establishment of a molecular diagnostic method based on EcR mutation and its application for field-monitoring. <i>Applied Entomology and Zoology</i> , 2019, 54, 223-230.	1.2	6
66	The Number of Larval Molts Is Controlled by Hox in Caterpillars. <i>Current Biology</i> , 2021, 31, 884-891.e3.	3.9	6
67	Occurrence of a feeding deterrent in <i>Barbarea vulgaris</i> (Brassicales: Brassicaceae), a crucifer unacceptable to the diamondback moth, <i>Plutella xylostella</i> (Lepidoptera: Plutellidae).. <i>Applied Entomology and Zoology</i> , 2001, 36, 465-470.	1.2	5
68	Identification of novel genes expressed highly and selectively in the corpora allata of the silkworm, <i>Bombyx mori</i> (Lepidoptera: Bombycidae). <i>Applied Entomology and Zoology</i> , 2020, 55, 45-54.	1.2	5
69	A mitochondrial phosphatase PTPMT1 is essential for the early development of silkworm, <i>Bombyx mori</i> . <i>Biochemical and Biophysical Research Communications</i> , 2020, 530, 713-718.	2.1	5
70	Identification of two juvenile hormone inducible transcription factors from the silkworm, <i>Bombyx mori</i> . <i>Journal of Insect Physiology</i> , 2015, 80, 31-41.	2.0	3
71	Oviposition and larval feeding habits of the pea blue, <i>Lampides boeticus</i> L. (Lepidoptera: Lycaenidae) on the lablab bean, <i>Dolichos lablab</i> L.. <i>Japanese Journal of Applied Entomology and Zoology</i> , 1985, 29, 26-30.	0.1	2
72	Development of a cell-based assay for ecdysteroid quantification using an early ecdysteroid-inducible gene promoter. <i>Applied Entomology and Zoology</i> , 2014, 49, 443-452.	1.2	2

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73	Methyl Farnesoate. , 2016, , 566-e100-3.		2
74	Characterization and Analysis of Novel Carboxyl/Cholinesterase Genes Possessing the Thr-316 Motif in the Silkworm, <i>Bombyx mori</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2010, 74, 2259-2266.	1.3	1
75	Development of allele-specific loop-mediated isothermal amplification (AS-LAMP) to detect the tebufenozide-resistant allele in the smaller tea tortrix, <i>Adoxophyes honmai</i> (Lepidoptera: Tortricidae). <i>Applied Entomology and Zoology</i> , 0, , 1.	1.2	1
76	Message from the Chief Editor. <i>Applied Entomology and Zoology</i> , 2011, 46, 1-1.	1.2	0
77	Juvenile hormone related genes as targets for developing biorational insecticides. <i>Japanese Journal of Pesticide Science</i> , 2015, 40, 58-67.	0.0	0
78	Methyl farnesoate. , 2021, , 991-992.		0